

28. A method for forming a filtration system operable to separate a process fluid into selected components comprising:

5 forming a housing having at least one inlet operable to receive a process fluid;

forming at least a first outlet from the housing for a retentate fluid to exit from the housing;

forming at least one second outlet from the housing for a permeate fluid to exit the housing;

10 forming at least one spiral wound membrane envelope; installing the at least one spiral wound membrane envelope in the housing;

connecting at least one conduit with a chamber formed within each membrane envelope to allow  
15 communication of permeate fluid from the chamber to the second outlet from the housing; and

applying vibration energy to the membrane envelope to clean any scale, solids cake and film from upstream surfaces of each membrane envelope.

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29. The method of Claim 28 further comprising:

attaching each spiral wound membrane envelope with a first end cap and a second end cap; and

25 inserting the first end cap and the second end cap into the housing.

30. The method of Claim 28 further comprising slidably reciprocating the first end cap, the second end cap and each attached membrane envelope relative to the  
30 housing during an associated filtration process.